



# भारत का राजपत्र

## The Gazette of India

प्राधिकार से प्रकाशित  
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No. 10] NEW DELHI, SATURDAY, MARCH 7, 1981 (PHALGUNA 16, 1902)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके  
(Separate paging is given to this Part in order that it may be filed as a separate compilation)

### भाग III—खण्ड 2

#### [PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस

[Notifications and Notices issued by the Patent Office relating to Patents and Designs]

THE PATENT OFFICE  
PATENTS AND DESIGNS

Calcutta, the 7th March 1981

APPLICATION FOR PATENTS FILED AT THE HEAD  
OFFICE, 214, ACHARYA JAGADISH BOSE ROAD,  
CALCUTTA-700 017

The dates shown in crescent brackets are the dates claimed  
under Section of the Act.

28th January, 1981

87/Cal/81. Institut Francais Du Petrole. Improved process  
for consolidating geological formations.

88/Cal/81. R. Priestley. Phase contacting apparatus and  
packings for use therein. (January 28, 1980).

89/Cal/81. Euteco Impainti S.p.A. Process for the production  
of cumene.

90/Cal/81. National Aeronautics and Space Administration.  
Three phase power factor controller.

91/Cal/81. Sumitomo Chemical Company Limited. N-benzyl-  
phenylacetamide derivatives, and their production  
and use.

92/Cal/81. Siemens Aktiengesellschaft. A free-swinging  
blocking transformer arrangement.

93/Cal/81. Westinghouse Electric Corporation. Improved  
data acquisition system and analog to digital con-  
verter therefor.

94/Cal/81. Pressels Pvt. Ltd. Improved black liquor fired  
recovery boiler for pulp and paper mill.

29th January, 1981

95/Cal/81. Corning Glass Works. Gradient index optical  
waveguide filament.

96/Cal/81. Western Electric Company, Incorporated. Magne-  
tically anisotropic alloys by deformation process-  
ing. (February 19, 1980).

97/Cal/81. Fosroc International Limited. Capsules contain-  
ing cementitious compositions. (January 29,  
1980).

98/Cal/81. Novek Foreign Trade Co. Ltd. Induction motor  
with short-circuited armature and a pipe cage.

99/Cal/81. Combustion Engineering, Inc. Solid fuel feed  
system for a fluidized bed.

100/Cal/81. Beloit Corporation. Extended nip press.

30th January, 1981

101/Cal/81. Caraid Patents N.V. A gaseous fluid pump and  
liquid spray apparatus incorporating such a pump.

102/Cal/81. Lucas Industries Limited. Closed loop control  
of I.C. engine idling speed. (January 30, 1980).

103/Cal/81. H. Laor. Piezoelectric apparatus for positioning  
optical fibers.

104/Cal/81. Westinghouse Electric Corporation. Series capa-  
citor protection with gapless arrestor blocks.

105/Cal/81. Nustep Trenndusen Entwicklungs-Und Patent-  
verwertungs-Gesellschaft MBH & Co. KG. Separation  
device for the separation of gaseous or  
vaporous substances.

- 106/Cal/81. Nustep Trenndusen Entwicklungs-Und Patent-verwertungs-Gesellschaft MBH & Co. KG. Separation device for the separation of gaseous or vaporous substances.

31st January, 1981

- 107/Cal/81. F. J. Smidth & Co. A/S. A vertical roller mill.
- 108/Cal/81. Preformed Line Products Company. Cable seal splice enclosure.
- 109/Cal/81. Battelle Development Corporation. Controlling steam temperature to turbines.
- 110/Cal/81. Metallgesellschaft A.G. Roller bearing.
- 111/Cal/81. J. Krings. Device for contracting pipes.
- 112/Cal/81. Campomarzio Impianti S.R.L. A method and system for continuous recovery of trivalent chromium from tannery discharge waters.
- 113/Cal/81. Beloit Corporation. Telescoping air jets for piling.
- 114/Cal/81. F. Touze. Improvements to heat exchange devices for cooling the wall and the refractory of a blast furnace.

2nd February, 1981

- 115/Cal/81. Sm. Chaitali Das Gupta & Sm. Sarmistha Kar. Improved liquid detergents and a method of making the same.
- 116/Cal/81. Sumitomo Electric Industries, Ltd. Rubber and plastic covered cable cross-linking device.
- 117/Cal/81. Egvesult Izzolampa ES Villamossagi RT. Electric lamp provided with a ceramic discharge tube.
- 118/Cal/81. James Mackie & Sons Limited. Preparation of jute fibres. (February 8, 1980).
- 119/Cal/81. Beloit Corporation. Cyclic electric drive for fine and coated paper cutter.
- 120/Cal/81. Phillips Petroleum Company. Process and apparatus for producing carbon black.
- 121/Cal/81. Italtel Societa Italiana Telecomunicazioni S.p.A. Tone generator for time-division telephone exchange.
- 122/Cal/81. Italtel Societa Italiana Telecomunicazioni S.p.A. Supply voltage distribution network for telecommunication systems.
- 123/Cal/81. Italtel Societa Italiana Telecomunicazioni S.p.A. Apparatus for controlling the operation of a pair of processors one of which acts as a hot reserve of the other in telecommunication system.

3rd February, 1981

- 124/Cal/81. Escher Wyss Limited. Rotor for a hydroelectric machine.
- 125/Cal/81. Vsesoiuzny Nauchno-Issledovatel'sky I Proektno-konstruktor'sky Institut Atomnogo Energeticheskogo Mashinostroenia. Feeder of bulk materials.
- 126/Cal/81. Sredneaziat'sky Nauchno-Issledovatel'sky Institut Khimicheskogo Mashinostroenia. Apparatus for electrophoretically cleaning drilling mud.

4th February, 1981

- 127/Cal/81. CPC International Inc. A method for the production of immobilized glucose isomerase.
- 128/Cal/81. BASF Aktiengesellschaft. Regulation of plant growth.
- 129/Cal/81. Toth Aluminium Corporation. Improvements in or relating to process of carbo-chlorinating leucinitic ore to produce aluminium chloride. [Divisional date July 21, 1977].
- 130/Cal/81. Precision Valve Corporation. One-piece mechanical break up (MBU).

- 131/Cal/81. Siemens Aktiengesellschaft. A turbogenerator for generating and supplying electricity at a constant frequency to a network.

APPLICATIONS FOR PATENTS FILED AT THE PATENT OFFICE BRANCH MUNICIPAL MARKET BUILDING, THIRD FLOOR, KAROL BAGH, NEW DELHI-110005

1st January, 1981

- 1/Del/81. Dipankar Basu, "An exerciser for developing body muscles".
- 2/Del/81. Mrs. K. Bhat, "A machine adapted to provide a measurement & recording of the contour of a surface".
- 3/Del/81. Anand Automobiles, "A package unit filter".
- 4/Del/81. Brush Switchgear Limited, "Gas blast interrupters".

2nd January, 1981

- 5/Del/81. Durga Prasad Saboo, "Multipurpose grinding and dehusking machine with automatic screening".

3rd January, 1981

- 6/Del/81. Southwire Company, "Improved premix gas burner assembly for copper melting furnace". [Divl. date February 14, 1978].

6th January, 1981

- 7/Del/81. Subhash Chander Gupta, "Improvement relating to photo frames".

7th January 1981

- 8/Del/81. Thermo Controls, "A capillary type cut out".
- 9/Del/81. Chief Controller Research & Development, "A process for the processing and fabrication of materials into components".
- 10/Del/81. Punjab Tractors Ltd, "A process for the manufacture of alcohol".
- 11/Del/81. Punjab Tractors Ltd, "A process for the manufacture of alcohol".
- 12/Del/81. Punjab Tractors Ltd, "A process for the conversion of cellulosic materials to power alcohol".
- 13/Del/81. Punjab Tractors Ltd, "A process for the conversion of cellulosic materials to power alcohol".

9th January, 1981

- 14/Del/81. V. R. Bhide, "A double walled vessel".
- 15/Del/81. V. R. Bhide, "A double walled vessel".
- 16/Del/81. Science Union Et Cie, "Process for preparing new disubstituted piperazines". [Divl. date November 8, 1978].
- 17/Del/81. Science Union Et Cie, "Process for preparing new disubstituted piperazines". [Divl. date November 8, 1978].

12th January, 1981

- 18/Del/81. Kuldeep Verma, "Semipermeable membrane coated seeds".

13th January, 1981

- 19/Del/81. Pfizer Corporation, "Preparation of novel 1-piperidinophthalazine derivatives". (June 3, 1977). [Divl. date May 15, 1978].

14th January, 1981

- 20/Del/81. Prudential Research Corporation, "A xerographic plate".
- 21/Del/81. Shri Ram Institute For Industrial Research, "A process for the preparation of polyacrylamide".
- 22/Del/81. Shri Ram Institute For Industrial Research, & D.C.M. Chemical Works, "A process for the hydrolysis of polyacrylamide".

23/Del/81. Gurn Enterprises, "Safety latches".

24/Del/81. Shell Internationale Research Maatschappij B.V., "Pesticidal composition and their use" (August 20, 1980).

25/Del/81. Sg Societe Industrielle Suisse, "Railway Track Tamping Machine".

15th January, 1981

26/Del/81. Baldeo Prasad Pande, "A device to transplant paddy plants".

APPLICATIONS FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, TODI ESTATES (3RD FLOOR), LOWER PAREL (WEST), BOMBAY-400 013

19th December 1980

392/BOM/80. Domestic Appliances. Improvements in or relating to tandoors or baking appliances.

393/BOM/80. Peter Autokits Private Limited. A shower-cum-body massager.

24th December 1980

394/BOM/80. Madhav Capacitors Private Limited. A trigger-on apparatus in high voltage studies.

395/BOM/80. Madhav Capacitors Private Limited. A pulse peak measuring voltmeter.

26th December 1980

396/BOM/80. Subhash Moreshwar Hardikar. An electronic blood pressure measuring instrument for operation theatres.

397/BOM/80. Pritam Lal. Circular room coolers.

398/BOM/80. Anil D. Gandhi. Improvement in or relating to A.C. fail break.

399/BOM/80. Doshi Naval Ben Keshavlal & Doshi Manoharlal Keshawlal. Improvement in or relating to packing box for wall clocks.

27th December 1980

400/BOM/80. Abid Kagalwala. A power saver.

29th December 1980

401/BOM/80. Rohit Harishchandra Parikh. A harness roller for weaving looms.

402/BOM/80. Indian Petrochemicals Corporation Limited. A process for the manufacture of chlorinated atactic polypropylene.

31st December 1980

403/BOM/80. Indian Oil Corporation Limited. Improvements in or relating to fuel filter and a fuel filter assembly incorporating the same.

404/BOM/80. Murlidhar Narayan Karkhanis. A solar still.

APPLICATIONS FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, 61, WALLAJAH ROAD, MADRAS-600002.

27th January, 1981

12/Mas/81. V. V. T. Thirupathy. Copedal Rickshaw with the swinging loaded arm aiding drivewheel device.

29th January, 1981

13/Mas/81. T. A. Vijayan. A domestic grinder with horizontal grinding surfaces with facility to drain the grinded substance.

31st January, 1981

14/Mas/81. J. J. Peedikayil. Central feeder system.

15/Mas/81. J. J. Peedikayil. Simple burner.

## ALTERATION OF DATE

148464

613/DEL/78

Anti dated to 17th August 1978.

## COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, give notice to the Controller of Patents on the prescribed Form 15, of such opposition. The written statement of opposition should be filed along with the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

"The classifications given below in respect of each specification are according to Indian Classification and International Classification."

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8, Kiran Sankar Roy Road, Calcutta, in due course. The price of each specification is Rs. 2/- (postage extra if sent out of India). Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

Typed or photo copies of the specifications together with photo copies of the drawings, if any, can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application to that office.

CLASS 65B(2) & 145-C.

148463

Int. Cl.-D21f 11/14, 11/06, D21j-1/20, 1/04, 1/06

B32 b 21/00, 29/00.

## "A PROCESS OF FORMING HIGH DENSITY INSULATING BOARD"

Applicants: ROGERS CORPORATION OF MAIN STREET, ROGERS, CONNECTICUT 06263, U.S.A.

Inventors: FRANCIS J. MEGARRY, DONALD GREEN, JEFFERY B. OTTO.

Application No. 603/Del/78 filed on 11th Aug. 78.

Appropriate Office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

(11 Claims)

A process of forming insulating board comprising the steps of:

forming a wet multi-ply board of a known fibrous material, substantially free of resin, the board being formed on the roll of a wet cylinder machine; drying the multi-ply board to reduce the moisture content thereof to about 1 to about 15%; and asymmetrically hot pressing the dry board by pressing and heating the felt side of the board at a first predetermined temperature and pressing and heating the roll side of the board at a second predetermined temperature, the first predetermined temperature being higher than the second predetermined temperature to establish a temperature differential of about 15°F to about 40°F across the board, the asymmetric hot pressing being under pressure such as herein described and occurring for at least 30 seconds.

Complete Specification 14 pages and Drawing 1 Sheet.

CLASS 39D, 35C.

148464

Int. Cl.-F01F 5/00.

## "A PROCESS FOR SEPARATING MAGNESIUM CARBONATE FROM DOLOMITE/DOLOMITIC LIMESTONES."

Applicants: THE DIRECTOR GENERAL CEMENT RESEARCH INSTITUTE OF INDIA, M-10 South Extension Part II, New Delhi-110 049, INDIA.

Inventors: Anjan Kumar Chatterji, Dochibhotla Venkata Ramana Rao, Vellambi Natrajan Vishwanathan, Kamal Kumar and Shibanji Rama.

Application No. 613/Del/78 filed on 17-8-78.

Division of application no. 523/Del/78 filed on Aug 17, 1978.

Appropriate Office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

(4 Claims)

A process for separating magnesium carbonate from dolomite/dolomitic limestone ore which comprises in crushing the ore, subjecting the ground ore to the step of partial calcination by heating at a temperature between 700 to 850°C, preparing a slurry of the partially calcined material, subjecting the slurry to the step of carbonation by passing carbon dioxide gas through the slurry and at a controlled pressure between 4 to 4.5 kg/cm<sup>2</sup> to obtain magnesium carbonate and calcium carbonate, filtering calcium carbonate therefrom and finally heating the filtrate to obtain magnesium carbonate.

Complete Specification 9 pages.

CLASS 107-J. 148465.  
Int. Cl.-F02m-11/10.

"STARTER MOTOR FOR AN INTERNAL COMBUSTION ENGINE"

*Applicants*: SOCIETE DE PARIS ET DU RHONE, of 36, Avenue Jean-Mermoz, Lyon 8eme, France.

*Inventors*: ALFRED BRUNO, MAZZORANA.

Application No. 616/Del/78 filed on 21st Sep. 78.

Appropriate Office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

(10 Claims)

A starter motor for an internal combustion engine, with an electromagnetic switch comprising a fixed core and a moving contact assembly consisting of a contact-bearing rod and a movable core which is coupled to a yoke joined to the drive device of a starter pinion, the said drive device having internal helical splines which engage with helical splines formed on the armature shaft of the motor, a contact spring for pressing the moving contact said bearing being housed in a recess in the moving core of the switch at the one end of this core at which the yoke is coupled, said contact-bearing rod being slidably mounted within a bore in the said moving core, and the said bore opening into said recess.

Complete Specification 18 pages and Drawing 2 Sheets.

CLASS 206B, 29C, 67C. 148466.  
Int. class-H04j-3/06, G06f-9/18 & G08C-15/12.

"INTEGRATED SWITCHING AND TRANSMISSION NETWORK"

*Applicants*: TELEFONAKTIEBOLAGET L. M. ERICSSON OF S-126 25 STOCKHOLM, SWEDEN.

*Inventors*: ARNE LENNART LOVDING & MATS AMUND PERSSON.

Application No. 627/Del/78 filed on 23rd Aug. 78.

Appropriate Office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

(3 Claims)

An integrated switching and transmission network comprising line groups being connected to a congestionless digital switch containing identically designed switch modules each through a link module containing a transmitter and a receiver and each through a link connection containing a first link respective at least a second link in order to transfer in a time division multiplex form digital communication information and signal information from the transmitter to the switch respective from the switch to the receiver, said switch performing space interchanges and time interchanges to switch between arbitrary time division multiplex channels for digital information which is transferred by means of said link connections, characterized in that each of first switch modules is associated with two of the said link modules, and has, through said link connections, its input connected to the transmitter of one of said associated link modules and its output connected to the

receiver of the other of said associated link modules, that said first switch modules each comprises a time stage known per se to perform time interchanges of the communication information being switched between the associated transmitter and the associated receiver, that said first switch modules furthermore each comprises a signalling logic to convert signals received from the associated transmitter to operation signals which control the associated time stage, as well as to signals intended for the associated receiver, that the switch lacks a connection between the input of one and the output of another of the modules, that said signalling logics of the switch modules lack connections to any central control unit included in the switch and that each link module comprise a control unit to establish communication paths within the connected own line group and, in cooperation with the control units of other line groups, to control the switch upon establishing connections between the own line group and said other line groups.

Complete specification 18 pages & Drawings 4 sheets.

CLASS 166C, 159E, 133A & 68C. 148467.  
Int. Class-H02p 5/40, 7/78 & 63 to 21/12.

"POWER TRAIN FOR AUXILIARY MARINE VASSELS".

*Applicants*: Harry William O'Brien, Jr., of 203 Carondelet St., New Orleans, State of Louisiana, U.S.A.

*Inventors*: Harry William O'Bries, gr.

Application no. 642/Del/78 filed on 30th Aug. 78.

Appropriate Office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

(6 Claims)

A power train for auxiliary marine vessels having propellers and propeller shafts driven thereby, comprising a plurality of power producing unit means connected in parallel, each of said power producing unit means comprising electrical generating means for producing a constant voltage and frequency alternating current, and diesel engine means for producing maximum torque and brake horsepower at maximum rated revolutions per minute with minimum fuel consumption per brake horsepower hour for driving said electrical generating means; a plurality of power control unit means connected in parallel with each other and respectively in series with said power producing unit means and comprising a plurality of silicon control rectifier means for rectifying and voltage controlling the constant voltage and frequency output of said electrical generating means into variable voltage direct current, and a plurality of electrical current control means connected in parallel with each other and in series with said electrical generating means for rectifying and varying the current; and a plurality of power using unit means comprising a plurality of shunt wound direct current motor means having rotor coils and field coils, said rotor coils connected together in parallel, and to the silicon control rectifier means in series with said power producing unit means for activation and control of varying speeds of said direct current motor means below 100% of base revolutions per minute, said field coils being connected in series through said electrical current control means with said electrical generating means and in parallel with each other for activating said direct current motor means in combination with said silicon control rectifier means and controlling said varying speeds above said 100% of base revolutions per minute of said direct current motor means.

Complete specification 8 pages and Drawing 3 sheets.

CLASS 107-B. 148468.  
Int. Cl.-F02b 19/02.

"IMPROVED SPLIT CYCLE INTERNAL COMBUSTION ENGINES".

*Applicants*: JOHN DONALD WISHART, of 8 Chapel Street, Blackburn, Victoria 3130, Australia.

*Inventors*: JOHN DONALD WISHART.

Application No. 684/Del/78 filed on 20th Sep. 78.

Convention date Sept. 22, 1977/(PD 1772/77) Australia, June 29, 1978/(PD 4909/78) Australia.

Appropriate Office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

## (9 Claims)

A split cycle internal combustion engine comprising a crank-shaft, at least one firing cylinder, for each firing cylinder an expansion cylinder adjacent thereto, each firing cylinder having a transfer port in the lower region of the combustion chamber communicating with the top of the adjacent expansion cylinder, a multistage compressor comprising at least two cylinders operating in series, a piston in each cylinder, means directing air supplied by the high pressure stage of the compressor to the combustion zone of each firing cylinder during the first part of the power stroke, means supplying fuel to the combustion zone of each firing cylinder to mix intimately in the correct proportion with the entering compressed air, and means external of each firing cylinder heating the air before entry to the top of the combustion zone, characterized in that ignition is controlled by timing the admission of fuel and of compressed air in relation to the position of the piston in each firing cylinder.

Complete Specification 26 pages and Drawing 6 Sheets.

CLASS 50-B. 148469.

Int. Cl.-F28c 1/00, F25d 1/00.

**"A WATER DISTRIBUTION MEANS FOR USE WITH AN AIR COOLER".**

*Applicant* : RAM NARAIN KHER, temporarily of 506 Shakuntala, 59 Nehru Place, New Delhi-110 024, India, an Indian national.

*Inventor* : RAM NARAIN KHER.

Application No. 704/Del/78 filed on 27th Sep. 78.

Appropriate Office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

## (7 Claims)

A water distribution means for use with or in an air cooler comprising :

- (a) a channel or tray having at least one water inlet; and
- (b) a water transfer member comprising at least one strand of a filamentary fibrous material possessing capillary action with respect to liquids and adapted to have one end thereof in contact with water in the said channel or tray, the said strand being supported on a frame of the water transfer member so that water flows from one end of the strand upwardly thereof under capillary action and thereafter to the other or lower end thereof under the force of gravity.

Complete Specification 11 pages and Drawing 1 Sheet.

CLASS 50-B. 148470.

Int. Cl.-F28c 1/00, F25d 1/00.

**"A WATER DISTRIBUTION MEANS FOR USE WITH AN AIR COOLER".**

*Applicant* : RAM NARAIN KHER, of 56 Shakuntala 59, Nehru Place, New Delhi-110 024, India.

*Inventor* : RAM NARAIN KHER.

Application No. 705/Del/78 filed on 27th Sep. 78.

Appropriate Office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

## (1 Claim)

A water distribution means for use with or in an air cooler as claimed in Indian Patent Specification No. 704/Del/78 of 27-9-78 characterised in that an anti splashing means is provided for preventing splashing of water from the water tray or channel, said means comprising a channel having a top wall, two side walls, a back wall and a front wall covering the said water channel or tray and supported thereby, the front wall of the anti splashing means extending outwardly beyond the upper edge of the front wall of the channel or tray so that a gap is provided between the two said front walls for the water transfer means to extend therethrough.

Complete Specification 13 pages and Drawing 1 Sheet.

CLASS 32E.

148471.

Int. Cl.-C08f 15/00, C08g 1/00, C08j 1/34.

**A PROCESS FOR PREPARING BEADS OF CROSS-LINKED COPOLYMER.**

*Applicant* : ROHM AND HAAS COMPANY, INDEPENDENCE MALL WEST, PHILADELPHIA, UNITED STATES OF AMERICA.

*Inventors* : THOMAS JAMES HOWELL, IAN PATTISON, WILLIAM GILCHRIST PATERSON.

Application No. 362/Del/78 filed May 12, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

**8 Claims—No drawings.**

A process for preparing beads of crosslinked copolymer containing (a) 50 to 99.5 mole % units of non-allylic aromatic monomer containing a single vinyl group such as herein described and (b) 0.5 to 50 mole % units of crosslinker monomer having at least two active non-allylic vinyl groups such as herein described by free radical polymerization in aqueous dispersion wherein the polymerization reaction is carried out in the presence of from 0.01 to 10 millimoles per mole of monomer of reaction moderating modifier which comprises one or more acetylenically or allylically unsaturated organic compound such as herein described admixed with the monomer such as herein described.

Comp. Specn. 18 Pages. Drgs. Nil.

CLASS 127A.

148472.

Int. Cl.-F16d 13/00.

**LOW INERTIA CLUTCH AND BRAKE SYSTEM.**

*Applicant* : VERNON ALISTEEL PRESS, COMPANY, OF 8300 SOUTH CENTRAL EXPRESSWAY, DALLAS, DALLAS COUNTY, TEXAS, UNITED STATES OF AMERICA.

*Inventors* : JENE ARNOLD BENEKE, TSURUO (NMI) OTSUKA, STEVEN ROSS OTSUKA AND SAMUEL GEORGE SARKISIAN.

Application No. 222/Cal/77 filed February 16, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta

**28 Claims.**

A low inertia clutch and brake system comprising : a rotatable shaft, a low speed clutch assembly including friction clutch surfaces mounted about said shaft, a high speed clutch assembly including friction clutch surfaces mounted about said shaft and spaced from said low speed clutch assembly, a brake assembly disposed between said low and high speed clutch assemblies and including friction surfaces mounted about said shaft, said brake assembly normally engaged to prevent rotation of said shaft, a stationary housing disposed about said brake assembly, piston means mounted in said housing and operable in response to fluid pressure to selectively disengage said brake assembly and to engage one of said clutch assemblies, and means for selectively applying fluid pressure to said piston means.

Comp. Specn. 22 Pages.

Drg. 2 Sheets.

CLASS 14B.

148473.

Int. Cl.-H01m 21/00.

**GALVANIC CELL HAVING A RESEALABLE VENT CLOSURE AND A METHOD FOR MAKING IT.**

*Applicant* : UNION CARBIDE CORPORATION, AT 270 PARK AVENUE, NEW YORK, STATE OF NEW YORK 10017, UNITED STATES OF AMERICA.

*Inventor* : HENRY HEINZ, JR.

Application No. 469 Cal/77 filed March 28, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 19 Claims.

A galvanic cell comprising a container having an open end and an inner disposed anode, a cathode within said container, a porous separator disposed between said anode and said cathode, an electrolyte disposed within said container, a cover for said container, and a resealable vent closure characterised in that a gas-impermeable, resiliently compressible elastomeric sponge gasket is compressed between the upper wall of the container and the cover.

Comp. Specn. 35 Pages. Drg. 4 Sheets.

CLASS 69A.

148474.

Int. Cl.-H01h 71/00.

AN INTERCHANGEABLE THREE PHASE TRIPPING DEVICE FOR A THREE POLE CIRCUIT-BREAKER.

*Applicant* : UNELEC S.A., OF 38, AVENUE KLEBER 75784 PARIS CEDEX 16, FRANCE.

*Inventor* : MICHEL BRUCHET.

Application No. 479/Cal/77 filed March 29, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 10 Claims.

An interchangeable three phase tripping device for a three pole circuit-breaker, wherein the circuit-breaker comprising a casing, a current-passing conductor for each of the phases of three pole circuit-breaker, and a control mechanism operable by the tripping device to break the circuit of the current-passing conductors of the three phases in unison : said tripping device including excess current detection means for each phase constituted as a magnetic circuit which, in operation, surrounds the respective current-passing conductor, the magnetic circuit being made of two separable parts, one of which is installed in said casing and the other separable part being removable and integral with said interchangeable tripping device such that replacement of the interchangeable tripping device in the circuit-breaker can be made without disconnection of the current-passing conductors of the circuit-breaker, said other separable part of said excess current detection means for each phase acting on said control mechanism which is common for the three poles whereby there is excess current in one phase all three poles of the circuit-breaker are opened.

Comp. Specn. 13 Pages. Drg. 4 Sheets.

CLASS 129C.

148475.

Int. Cl.-B23d 31/00, B23p 15/20, 15/28.

MOVABLE TRANSPORTABLE DEVICE FOR THE MACHINING-OFF OF PROTRUDING WELDED MATERIAL IN RAIL JOINT-WELDING.

*Applicant* : ELEKTRO-THERMIT GMBH. OF GERLINGSTR. 65, 4300 ESSEN, WEST GERMANY.

*Inventors* : PAUL TABERT AND JOSEF BECKER.

Application No. 1275/Cal/77 filed August 17, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 3 Claims.

Movable transportable device for the machining-off, to give the correct profile, of protruding welded material when welding rails in a laid track, with a hydraulically actuatable cutting tool supported on the rail, the shearing blades of which tool being movable towards one another in the manner of tongs, characterized in that a support frame, attachable to the rail, with transverse struts (3, 4; 15, 16; 28, 29; 32, 35), for supporting at least one hydraulic cylinder (5, 6; 17, 18; 24, 25; 33, 34) for the cutting tool, is provided in a manner which is in itself known that the support frame possesses two longitudinal members (1, 2; 13, 14; 22, 23; 30, 31), running parallel to one another, which are rigidly connected to the transverse supports, and that one shearing blade (11; 21) of the cutting tool is fixed to a blade carrier (9; 20) which is borne by the hydraulic cylinder (5, 6; 17, 18; 24, 25; 33, 34) mounted on one of the rigid transverse supports (3; 15; 28; 35), whilst the other shearing blade (12, 19) is either rigidly connected to the other rigid transverse support (16; 32) of the support frame or is fixed to another blade carrier (10) which

is borne by at least one further hydraulic cylinder (7, 8; 26, 27) mounted on the other transverse support.

Comp. Specn. 17 Pages. Drg. 3 Sheets.

CLASS 71A.

148476.

Int. Cl.-E21c 7/00.

A DUST COLLECTION DEVICE FOR USE WITH ROCK DRILLING MACHINES IN THE MINES.

*Applicant* : COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, RAJI MARG, NEW DELHI-1, INDIA

*Inventors* : DR. JIWANESH KUMAR SINHA, MR. PALLIYIL KUNHUNNY AND MR. SUBHRENDU BAGCHI.

Application No. 153/Del/77 filed July 8, 1977.

Complete Specification left October 7, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

## 4 Claims.

A dust collection device for use with rock drilling machines in coal mines comprising of a housing unit, open at both top and bottom ends. Having round flanges at both ends, which are fitted with means to hold a drilling rod in a dust-tight compartment, the housing unit having provided with a side pipe for entry, of compressed air and a dust collector bag fitted to the side pipe or to the side opening of the housing unit.

Comp. Specn. 7 Pages. Drg. 3 Sheets.

CLASS 89.

148477.

Int. Cl.-G01l 3/00.

IMPROVEMENT IN OR RELATING TO HYDRAULIC DYNAMOMETER.

*Applicant & Inventor* : DR. INDU BHUSHAN BHOWMICK, 101/1/5, BARRACKPORE TRUNK ROAD, BONHOUGHLY, CALCUTTA-700 050, WEST BENGAL, INDIA.

Application No. 180/Cal/78 filed February 17, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 9 Claims.

An improved hydraulic dynamometer for measuring load and tension comprising—a fixed supporting cylindrical member closed at one end by means of a wall having an axial bore, a fixed end piece screwed on to the open end of the cylindrical member and a floating end piece passing through the said axial bore at the other end of the cylindrical member, the floating end member being provided with an extended stem threaded at the end and supported at the centre of the fixed end piece; two cup shaped annular pressure plates mounted on the stem of the floating end piece, one tubular collapsible container ring filled with hydraulic oil, mounted on the said stem and enclosed in between the said two pressure plates; all the pressure plates being secured on the stem by a nut; a capillary metal tube connecting the collapsible container with a pressure gauge; a light cylindrical external metal housing fitted with the said pressure gauge and housing the said whole assembly inside it and fixed therein by set screws.

Comp. Specn. 8 Pages. Drg. 2 Sheets.

CLASS 131B.

148478.

Int. Cl.-E21b 9/00.

DRILL BIT.

*Applicant* : SANDVIK AKTIEBOLAG, OF FACK S-81101 SANDVIKEN 1, SWEDEN.

*Inventor* : KARL LENNART GOSTA LUMEN.

Application No. 281/Cal/78 filed March 16, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 6 Claims.

Drill bit consisting of a steel body portion equipped with cylindrical hard metal inserts located in cylindrical holes with an interference fit and protruding from the said holes, characterized in that the lowermost portions of the cylindrical side

walls of the insert-receiving holes are undercut to provide annular recesses, the recesses being such as to obviate fatigue failure and such that the lowermost portion of the cylindrical surface of each insert faces the said annular recess.

Comp. Specn. 7 Pages. Drg. 2 Sheets.

CLASS 116H.

148479.

Int. Cl.-B62d 21/00.

#### IMPROVEMENTS IN ARTICULATED VEHICLES.

*Applicant* : B. H. B. ENGINEERS PTY. LTD., OF 522, GUILDFORD ROAD, BAYSWATER, IN THE STATE OF WESTERN AUSTRALIA, COMMONWEALTH OF AUSTRALIA.

*Inventor* : CYRIL EMBLEY BOWRA.

Application No. 334/Cal/78 filed March 28, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims.

An articulated vehicle as herein described wherein the articulated structure between the portions comprises a support frame pivotally mounted at a number of spaced locations in the first portion to be pivotable about an axis parallel to and vertically in line with the longitudinal central axis of the first portion, the second portion of the vehicle being mounted to the support frame to be rotatable thereon about a substantially vertical axis.

Comp. Specn. 7 Pages. Drg. 1 Sheet.

CLASS 89.

148480.

Int. Cl.-B23b 49/00.

#### INTERIOR GAUGE FOR MEASURING THE DIAMETER OF BORES OF MACHINED WORKPIECE.

*Applicant* : TESA S.A., OF VAUD OF RUE BUGNON 38, 1020 RENENS, SWITZERLAND.

*Inventors* : GEORGES IENDI AND NICOLAE VOINESCU.

Application No. 241/Del/78 filed April 3, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

12 Claims.

An interior gauge in which a body is provided with a measuring head capable of being introduced into a bore to be measured, in which a measuring feeler is movable with respect to the said head and adapted to be put into contact with the wall of the bore, and in which a measurement transducer, the movable components of which are connected to the movable feeler, is adapted to produce output signals representative of the displacement of the said movable feeler, said gauge comprising a mechanism for immobilising the measuring head in the bore to be measured including members movable by radial translation for bearing on the wall of the said bore and a manual control for the said mechanism, a feeler movable angularly and radially in a surface limited by a circumference contained in a plane perpendicular to the axis of revolution of the bore to be measured once the measuring head is immobilized therein, a shaft carrying the said movable feeler, a driving mechanism for the said shaft and for the said movable feeler including members adapted to cause and co-ordinate the angular and radial movement of the movable feeler and to put this into successive contacts with the wall of the bore at a chosen number of points spaced over the said circumference, a calculator for the treatment of the said signals connected to the measurement transducer via connecting circuit, an angular position detector for the movable feeler inserted in the said circuit comprising a component sensitive to the said position and adapted to close the said circuit at each chosen contact of the movable feeler with the wall of the bore to be measured, and a display device for displaying the value represented by the output signal of the calculator adapted to be connected to the output of the said calculator.

Comp. Specn. 19 Pages. Drg. 2 Sheets.

CLASS 32F-c & 123.

148481.

Int. Cl.-C07c 127/00.

#### IMPROVED PROCESS AND APPARATUS FOR THE SYNTHESIS OF UREA.

*Applicant* : MONTEDISON S.P.A., OF 31, FORO BUONAPARTE, MILAN, ITALY.

*Inventor* : GIORGIO PAGANI.

Application No. 476/Cal/78 filed May 2, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

17 Claims.

Improved isobaric double-recycle process for synthesizing urea, under intermediate forming of ammonium carbamate, comprising the reaction between ammonia and carbon dioxide according to high  $\text{NH}_3$ :  $\text{CO}_2$  ratios, a heat-treatment of the synthesis product, substantially at the same pressure as the synthesis and in the presence of a stripping gas, and two distinct isobaric recycles of the residual substances and of the substances in excess, released from said syntheses product, said process being characterized in that : (a) said treatment of the synthesis product is carried out in two consecutive stages which are osobaric in respect of the synthesis, in the first of which stages said product is heated, whereby substantially all the residual carbamate is decomposed and the decomposition products are displaced together with part of the  $\text{NH}_3$  excess, while in the second stage the remaining part of the  $\text{NH}_3$  excess is displaced by supplying supplemental heat and by injecting thereto a  $\text{CO}_2$  stream; (b) the gas phase stripped in the first stage is immediately recycled to the synthesis and the gas phase stripped in the second stage is subjected to a condensation and to a residual gas purge before being recycled too, in the liquid state, to the synthesis.

Comp. Specn. 26 Pages. Drg. 4 Sheets.

CLASS 32F-h.

148482.

Int. Cl.-C07d 51/06.

#### PROCESS FOR PREPARING 1-PIPERIDINOPHTHALAZINES AS CARDIAC STIMULANTS.

*Applicant* : PFIZER CORPORATION, OF CALIE 151, AVENIDA SANTA ISABEL, COLON, REPUBLIC OF PANAMA AND HAVING A COMMERCIAL ESTABLISHMENT AT 102 RUE LEON THEODOR, JETTE, BRUSSELS 9, BELGIUM.

*Inventors* : SIMON FRASER CAMPBELL, JOHN CHRISTOPHER DANILEWICZ ANTHONY GARTH EVANS AND ALLAN LESLIE HAM.

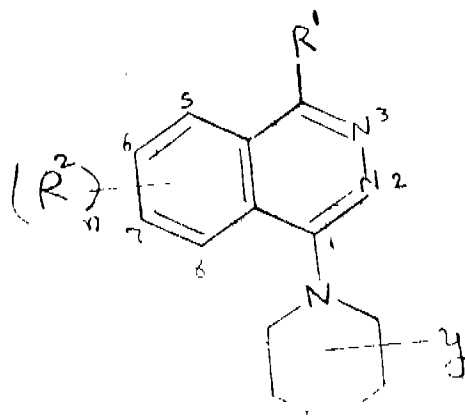
Application No. 364/Del/78 filed May 15, 1978.

Convention date June 3, 1977/(23582/77) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

4 Claims.

A process for preparing a phthalazine of the formula I.



Formula I

wherein (i)  $R^1$  is a hydrogen atom or a lower alkyl group; (ii)  $(R^2)_n$  represents 1 to 3 substituents, each  $R^2$  being a hydroxy or lower alkoxy group, and  $n$  being 1 to 3, or any two of the moieties  $R^2$  constitute a methylenedioxy or ethylenedioxy group attached to adjacent positions of the benzene ring; and (iii)  $Y$  is attached to the 3- or 4-position of the piperidone ring and represents either; (a) a group of the formula  $-Z^1$ -COR<sup>3</sup> wherein  $Z^1$  is  $-CH_2-$  or  $-N-$ ,

$R^3$  is a lower alkyl group optionally substituted by an amino (as hereinbefore defined), hydroxy, lower alkoxy, aryl or heteroaryl group; a lower alkenyl- or lower alkynyl-methyl group; a lower alkoxy group optionally substituted by an amino (as hereinbefore defined), aryl, heteroaryl, lower alkoxy or hydroxy group; an aryl group; an aryloxy group; or a heteroaryl group; and  $R^4$  is a hydrogen atom; a lower alkyl group optionally substituted by an amino (as hereinbefore defined), lower alkoxy, hydroxy, aryl or heteroaryl group; a lower alkenyl- or lower alkynyl-methyl group; an aryl group or a heteroaryl group; (b) group of the formula  $N-SO_2R^5$

wherein  $R^4$  is as defined above and  $R^5$  is a group as defined for  $R^3$  above or is a group of the formula shown in Fig. 1.

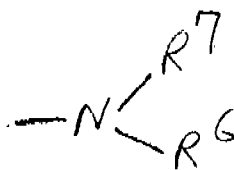


Fig. 1

in which  $R^7$  is a hydrogen atom or a lower alkyl group and  $R^6$  is a group as defined for  $R^4$  above, or  $R^6$  and  $R^7$  taken together with the nitrogen atom to which they are attached form a saturated monocyclic heterocyclic ring;

(c) a group of the formula shown in Fig. 2.

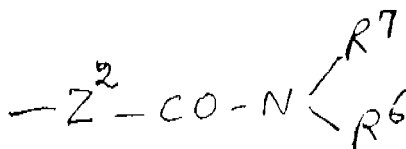
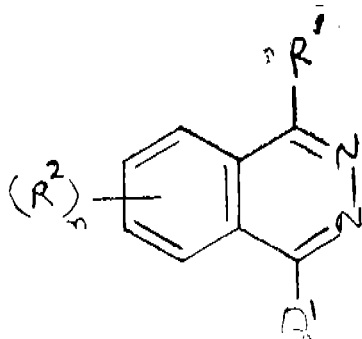


Fig. 2

wherein  $Z^2$  is  $-N-$  or  $-O-$ , and  $R^4$ ,  $R^5$  and  $R^7$  are as

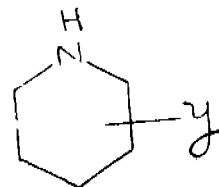
defined above, or when  $Z^2$  is  $-N-$ ,

$R^4$  and  $R^7$  taken together may represent  $-(CH_2)_n-(CH)$  an *o*-phenylene group; or (d) a hydroxy, lower alkanoyloxy or lower alkoxy group; or a lower alkyl or lower alkoxy group substituted by hydroxy, lower alkoxy or a group of the formula  $-CONR^6R^7$  wherein  $R^6$  and  $R^7$  are as defined above; and the pharmaceutically acceptable acid addition salts thereof; which process is characterised by reacting a phthalazine of the formula III.



Formula III

wherein  $R^1$ ,  $R^3$  and  $n$  are as defined above and  $O^1$  represents a good leaving group such as chloro, bromo, iodo, lower alkoxy or lower alkylthio, with an amine of the formula IV.



Formula IV

wherein  $Y$ , which is in the 3- or 4-position of the piperidine ring, is as defined above, any groups in  $R^2$  or  $Y$  capable of displacing the leaving group  $O^1$  being if necessary protected by conventional method prior to the reaction, the protecting group being removed by standard procedures after the reaction and, if desired converting the compound of formula I to a pharmaceutically acceptable acid addition salt by reaction with a non-toxic acid.

Comp. Specn. 67 Pages. Drg. 5 Sheets.

CLASS 37B.

148483.

Int. Cl.-B04b 3/00, B01d 21/26.

IMPROVEMENTS IN SOLID BOWN DECANter CENTRIFUGES.

Applicant: THOMAS BROADBENT & SONS LIMITED, OF HUDDERSFIELD, WEST YORKSHIRE, HD1 3EA, ENGLAND.

Inventor: JOSEPH FENWICK JACKSON.

Application No. 371/Del/78 filed May 16, 1978.

Convention date May 24, 1977/(21769/77) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

5 Claims.

A solid bowl decanter centrifuge comprising a solid bowl, means for rotating said bowl at a first speed, a scroll conveyor, means for rotating the conveyor within the bowl at a second speed, which is slightly different from said first speed, for conveying separated solids to a solids discharge end of the bowl, a feed compartment formed in a hub portion of the scroll conveyor and communicating with the interior of the bowl through one or more apertures in the conveyor hub portion, a first stationary feed pipe for introducing to the interior of the feed compartment a suspension which is to be centrifuged, and a second stationary feed pipe for introducing into the suspension a flocculating additive, said feed compartment comprising a radially extending passage disposed to expel the suspension and additive into the bowl immediately after they leave the stationary feed pipes.

Comp. Specn. 11 Pages. Drg. 4 Sheets.

CLASS 32F<sup>2</sup>.

148484.

Int. Cl.-C07c 119/04.

PROCESS FOR THE CONTINUOUS SEPARATION OF TOLUENE DIISOCYANATE FROM MANUFACTURING RESIDUES.

Applicant: PRODUITS CHIMIQUES UGINE KUHL-MANN, OF 25, BOULEVARD DE L'AMIRAL BRUIX, 75116 PARIS, FRANCE.

Inventors: PIERRE AILLAUD AND PHILIPPE D'HAUSSY.

Application No. 453/Del/78 filed June 20 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

5 Claims—No drawings.

A process for the continuous separation of toluene diisocyanate, without decomposition thereof, from a crude residue mixture of a reaction mass containing the toluene diisocyanate consisting in continuously introducing the residue mixture into all agitated, scraped evaporator under a pressure of 1 to 50 mmHg for a minimum residence time of 15 minutes, evaporat-



ing the toluene diisocyanate, the residue mixture being moved progressively along the wall of the evaporator to a temperature of 210°C to 250°C the evaporated toluene diisocyanate being condensed in a conventional manner and then collected and the dry solid residue being continuously separated and collected.

Comp. Specn. 6 Pages. Drgs. Nil.

CLASS 69D.

148485.

Int. Cl.-D01h 9/00.

#### ELECTRO-MAGNETIC RELAY.

*Applicant* : SOCIETE D'APPAREILLAGE ELECTRIQUE SAPAREL, OF 38160 SAINT-MARCELLIN, FRANCE.

*Inventor* : EDOUARD LE ROUX.

Application No. 539/Del/78. filed July 21, 1978.

Addition to No. 224/Cal/77.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

10 Claims.

A high sensitivity electro magnetic relay comprising a moving armature held against two pole pieces of a magnetic circuit by means of a permanent magnet, wherein the armature is subjected to the action of two return springs tending to draw the armature away from the pole pieces against the attraction of the permanent magnet, the springs comprising a first, non-adjustable spring and a second, adjustable spring, the springs being independent component parts arranged to act in concert, and the second spring being a spiral spring placed between the two branches of the magnetic circuit on the axis of the armature pivot.

Comp. Specn. 8 Pages. Drg. 1 Sheet.

#### PATENTS SEALED

143656-146532 147058 147198 147220 147238 147280 147293  
147322 147445 147447 147451 147456 147467 147476 147478  
147487 147509 147512 147513 147518 147525

#### AMENDMENT PROCEEDINGS UNDER SECTION 57

Notice is hereby given that Cassella Farbwerke Mainkur Aktiengesellschaft, of 526, Hanauer Landstrasse, 6 Frankfurt (Main)-Fechenheim, West Germany, a body corporate organised under the laws of West Germany, have made an application under Section 57 of the Patents Act, 1970 for amendment of application, specification and drawings of their application for patent No. 146950 for "Process for the manufacture of soluble trisazo dyestuffs". The amendments are by way of amending the name of the applicants from Cassella Farbwerke Mainkur Aktiengesellschaft, to Cassella Aktiengesellschaft. The application for amendment and the proposed amendments can be inspected free of charge at the Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-700017 or copies of the same can be had on payment of the usual copying charges. Any person interested in opposing the application for amendment may file a notice of opposition on the prescribed form 30 within three months from the date of this notification at the Patent Office, Calcutta. If the written statement of opposition is not filed with the notice of opposition it shall be left within one month from the date of filing the said notice.

#### PATENTS DEEMED TO BE ENDORSED WITH THE WORDS "LICENCES OF RIGHT"

The following patents are deemed to have been endorsed with the words "Licences of right" under Section 87 of the Patents Act, 1970. The dates shown in the crescent brackets are the dates of the patents.

##### No. & Title of the invention

141273 (04-02-74) Process for concentrating lead and silver by floatation in products which contain oxidized lead.

141298 (16-09-74) A process for producing maleic anhydride.

141300 (25-01-75) Process for the preparation of dithiodianilines.

##### No. & Title of the invention

141341 (23-11-73) The metullothermic production of magnesium induced by a stream of inert gas.

141342 (23-11-73) Aluminothermic production of magnesium and an oxide slag containing recoverable alumina.

141343 (23-11-73) Magnesium production from a molten oxide slag in the presence of inert gas.

141344 (23-11-73) Magnesium production from a molten oxide slag in the presence of hydrogen.

#### RENEWAL FEES PAID

102791 103652 103771 103791 103833 103848 103937 103944  
103948 104008 104035 104182 104381 107709 108842 108872  
109003 109013 109143 109192 109193 109194 109195 109334  
109342 109425 109434 109439 109461 109464 109630 110008  
113012 114337 114346 114348 114349 114457 114477 114504  
114505 114543 114553 114633 114644 114698 114766 114873  
115078 119602 119617 119645 119685 119688 119701 119702  
119762 119778 119793 119800 119835 119885 119936 119937  
119939 119943 119952 119960 119967 119969 120056 120063  
120069 120128 120276 124709 124710 124974 125128 125237  
125251 125270 125290 125292 125302 125350 125418 125454  
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134635 134647 134656 134670 134674 134679 134720 134743  
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135013 135049 135062 135603 136145 136616 136937 137244  
137248 137504 137469 137672 137679 138006 138220 138537  
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140695 140869 140940 140951 141001 141053 141074 141207  
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142163 142259 142487 142798 142882 142926 143122 143156  
143282 143433 143449 143506 143533 143534 143587 143701  
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144134 144518 144525 144590 144613 144693 144715 144072  
144996 145088 145157 145249 145518 145755 145808 145816  
145831 145842 145849 145867 145901 146058 146145 146218  
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146861 146880 146965 146968 146869 146974 146994 147040  
147124 147206 147207 147297

#### CESSATION OF PATENTS

138875 138878 138896 139810 139829 142290 142486 145274  
145989 146159

#### REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in each entry is the date of registration of the design included in the entry.

Class 1. No. 149441. Geep Industrial Syndicate Limited, an Indian Company, 28-South Road, Allahabad, Uttar Pradesh, India. "Torch". April 11, 1980.

Class 1. No. 149442. Geep Industrial Syndicate Limited, an Indian Company, 28-South Road, Allahabad, Uttar Pradesh, India. "Torch". April 11, 1980.

Class 1. No. 149532. Yamato Iron Works Co. Ltd., a Japanese Corporation of 33-35 Nishiogu, 8-chome, Arakawa-ku, Tokyo, Japan. "Cap for Drum". May 12, 1980.

Class 1. No. 149533. Yamato Iron Works Co. Ltd., a Japanese Corporation of 33-35, Nishiogu, 8-chome, Arakawa-ku, Tokyo, Japan. "Cap for Drum". May 12, 1980.

- Class 1. No. 149649. The Akal Mechanical Works, Purana Bazar, Ludhiana-141008 (Punjab), Partnership Firm. "Folding Machine". June 30, 1980.
- Class 1. No. 149479. Triple Pa Trust, an Indian Registered Trust of Model Town, Bai Rajeshwar Road, Mulund, Bombay-400080, Maharashtra, India. "Monoblock Submersible Pump". April 23, 1980.
- Class 1. No. 149480. Triple Pa Trust, an Indian Registered Trust of Model Town, Bai Rajeshwar Road, Mulund, Bombay-400080, Maharashtra, India. "Monoblock Submersible Pump". April 23, 1980.
- Class 1. No. 149933. Paul Legueu, a French Industrial of 83, Avenue de Mazy, 44380 Pornichet, France. "Bus Vehicle". October 18, 1980.
- Class 1. No. 149978. Hiro Shivali Mandani, Indian National, of Jubilee Court, Linking Road, Bandia (E) Bombay-400051, State of Maharashtra, India. "Tension Meter". September 29, 1980.
- Class 2. No. 149862. Bir Plastics, an Indian Proprietary Concern of A-12/4, Naraina Industrial Area, Phase-1, New Delhi-110028. "Fruit Bowl". August 30, 1980.
- Class 2. No. 149863. Bir Plastics, an Indian Proprietary Concern of A-12/4, Naraina Industrial Area, Phase-1, New Delhi-110028. "Fruit Bowl". August 30, 1980.
- Class 3. No. 149499. Amar Tape Manufacturing Co. (Prop. Sheth Bros Family Trust) of 23, K.A. Subramaniam Road, Matunga, Bombay-400019, State of Maharashtra, India. "Educational Toy Clock". April 29, 1980.
- Class 3. No. 149519. Sahni Allied and Battery Spares of 27-28, Gokhle Market, Tis Hazari, Delhi, "Hydro Meter". May 8, 1980.
- Class 3. No. 149527. Addressing Systems International Limited, a British Company of Rosedale Works, Rosedale Road, Richmond, Surrey TW9 2SZ, England. "Hand-held printer". May 9, 1980.
- Class 3. No. 149560. Suru Chemicals & Pharmaceuticals Private Limited, a private limited company of C-3, Sona Udyog, Parsi Panchayat Road, Andheri (East), Bombay-400069, Maharashtra. "Syringe". May 23, 1980.
- Class 3. No. 149609. Roplas (India) Limited, an Indian Company of 145 Bombay-Poona Road, Pimpri, Pune-411018, Maharashtra, India. "A Vehicle". June 11, 1980.
- Class 3. No. 149621. Roplas (India) Limited, an Indian Company of 145 Bombay-Poona Road, Pimpri, Pune-411018, Maharashtra, India. "Sidecar for an auto-scooter". June 18, 1980.
- Class 3. No. 149622. Roplas (India) Limited, an Indian Company of 145 Bombay-Poona Road, Pimpri, Pune-411018, Maharashtra, India. "Sidecar for an auto-scooter". June 19, 1980.
- Class 3. 149629. Power Electronics of 5496, Nai Sarak, Delhi, an Indian Partnership Concern. "Voltage Stabiliser". June 21, 1980.
- Class 3. No. 149631. Rumi Plastics, 8A, Indian Metal & Forging Rolling Mills Compound, Lal Bahadur Shastri Marg, Vikhroli (West), Bombay-400083, Maharashtra, an Indian Partnership Firm. "Jerry Can". June 23, 1980.
- Class 3. No. 149638. Vijaykumar Vishnu Vaze, 1167, Shukrawar Petn, Subhashnagar Lane No. 2, Pune-411002, Maharashtra State, India. "Rubber Gasket". June 23, 1980.
- Class 3. No. 149855. Asian Advertisers of 20, Kala Bhavan, 3, Malabar Road, Opera House, Bombay-400004, Maharashtra, an Indian Partnership Firm. "Ash tray". August 27, 1980.
- Class 3. No. 149906. Ajoy Kumar Gupta, trading as Hindustan Chemical Industries, Indian of 13A Sikderpara Lane, Calcutta-70, West Bengal, India. "Containers". September 15, 1980.
- Class 3. No. 149925. Dpty Lal Judge Mal of 19, Rajasthani Udyog Nagar, G.T. Karnal Road, Delhi-110033, an Indian Partnership Firm. "Tray". September 16, 1980.
- Class 3. No. 149944. N. P. Kinariwala Pvt. Ltd., an Indian Company of 148, Mukti Maidan, Maninagar, Ahmedabad-380008, Gujarat State, India. "Transverse Drums". September 19, 1980.
- Class 3. No. 149980. Moona Plastic Industries of Subhash Marg, Jogeshwari East, Bombay-400060, Maharashtra, an Indian Partnership Firm. "Container with cap". September 30, 1980.
- Class 3. No. 149986. Darab and Company of Plot No. 79, Corner of Street No. 13 & 15, MIDC Industrial Area, Marol, Andheri East, Bombay 400093, Maharashtra State, India. "Bottle". September 30, 1980.
- Class 3. No. 149991. Oswaldo Jose Coelho Velho and Jose Christovan Pinto, both being Indian citizens and having office at 1st floor, Velhao Building, Near Municipal Garden, Panjim, Goa-Pin : 403001, India. "Feater-cum-shower". September 30, 1980.
- Class 5. No. 149448. Sandipkumar Ray, an Indian Inhabitant of A7, Daswani Apartments, Four Bungalow Road, Varsova, Andheri (West), Bombay-400077, Maharashtra State, "Boxes". April 14, 1980.
- Class 5. No. 149449. Sandipkumar Ray, an Indian Inhabitant of A7, Daswani Apartments, Four Bungalow Road, Varsova, Andheri (West), Bombay-400077, Maharashtra State, "Boxes". April 14, 1980.
- Class 5. No. 149450. Sandipkumar Ray, an Indian Inhabitant of A7, Daswani Apartments, Four Bungalow Road, Varsova, Andheri (West), Bombay-400077, Maharashtra State, "Boxes". April 14, 1980.
- Class 11. No. 149599. Hybo Hindustan, an Indian Partnership Firm of C-6, M.I.D.C. Road No. 22, Marol Andheri (East), Bombay-400093, Maharashtra, India. "Men's underwear". June 3, 1980.

S. VEDARAMAN,

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